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(21) International Application Number: PCT/GB99/00727 (22) International Filing Date: 19 March 1999 (19.03.99) (30) Priority Data: 9805939.7 20 March 1998 (20.03.98) GB (71) Applicant (for all designated States except US): THE VICTORIA UNIVERSITY OF MANCHESTER [GB/GB]; Oxford Road, Manchester M13 9PL (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): EMES, Michael, James [GB/GB]; 19 Odgen Road, Bramhall, Stockport SK7 1HJ (GB). TETLOW, Ian, Joseph [GB/GB]; 16 Thames Road, Milnrow, Rochdale OL16 (GB). BOWSHER, Caroline, Grace [GB/GB]; 84B Wellington Road, Fallowfield, Manchester M14 6BJ (GB). (74) Agent: ATKINSON, Peter, Birch; Marks & Clerk, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: ADP-GLUCOSE TRANSPORTER OF THE AMYLOPLAST (57) Abstract The application relates to an ADPglucose transporter protein, or a modification or fragment thereof capable of ADPglucose transport activity which may be isolated from plant amyloplasts. The application further relates to DNA molecules encoding said transporter, plants cells transformed with the DNA molecules and also methods of regulating starch production in plants or plant cells by modulating ADPglucose transport.		